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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/890,801	10/30/2001	Stephen Edward Rees	0459-0683P	7859
2292	7590 10/14/20	4	EXAMINER	
BIRCH STEWART KOLASCH & BIRCH			NASSER, ROBERT L	
PO BOX 747 FALLS CHU	RCH, VA 22040-0'	47	ART UNIT PAPER NUMBER	
111220 0110	22010		3736	-

DATE MAILED: 10/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	<i>_</i>
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Office Action Summary	09/890,801	REES ET AL.	
	Examiner	Art Unit	
The MAILING DATE of this commu	Robert L. Nasser	3736	
Period for Reply	incauon appears on the cover sheet v	viui uie correspondence addres	·S
A SHORTENED STATUTORY PERIOD F THE MAILING DATE OF THIS COMMUN - Extensions of time may be available under the provision after SIX (6) MONTHS from the mailing date of this com - If the period for reply specified above is less than thirty (- If NO period for reply is specified above, the maximum s - Failure to reply within the set or extended period for repl Any reply received by the Office later than three months earned patent term adjustment. See 37 CFR 1.704(b).	IICATION. s of 37 CFR 1.136(a). In no event, however, may a munication. 30) days, a reply within the statutory minimum of th tatutory period will apply and will expire SIX (6) MC y will. by statute, cause the application to become A	a reply be timely filed irty (30) days will be considered timely. INTHS from the mailing date of this commu	nication.
Status			
1)⊠ Responsive to communication(s) fil	ed on 06 July 2004		
2a)☐ This action is FINAL .	2b)⊠ This action is non-final.		
3) Since this application is in condition	<i>'</i> —		rits is
Disposition of Claims			
4)⊠ Claim(s) <u>1-59</u> is/are pending in the 4a) Of the above claim(s) is/a 5)⊠ Claim(s) <u>1-29 and 51-56</u> is/are allow 6)⊠ Claim(s) <u>30,33,34,37-39,41,43-50 a</u> 7)⊠ Claim(s) <u>31,32,35,36,40 and 42</u> is/a 8)□ Claim(s) are subject to restri	are withdrawn from consideration. wed. and 57-59 is/are rejected. are objected to.		
Application Papers			
9)☐ The specification is objected to by the	ne Examiner.		
10) The drawing(s) filed on is/are	: a) ☐ accepted or b) ☐ objected to	by the Examiner.	
Applicant may not request that any obje	ection to the drawing(s) be held in abeya	ince. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including 11) The oath or declaration is objected to			
Priority under 35 U.S.C. § 119		,	
2. Certified copies of the priority3. Copies of the certified copies	documents have been received. documents have been received in a of the priority documents have been onal Bureau (PCT Rule 17.2(a)).	Application No n received in this National Stag	je
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (I 3) Information Disclosure Statement(s) (PTO-1449 of Paper No(s)/Mail Date	PTO-948) Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application (PTO-152)

Application/Control Number: 09/890,801

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The final rejection is being withdrawn and this action entered to address a problem with claims 49 and 50 discovered during discussions after final with applicant.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 49 and 50 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Both of these claims recite computer programs adapted to determine parameters according to claim 1. However, claim 1 does not recite any method steps, it is an apparatus claim. Accordingly, it is unclear exactly what the scope of these claims is, as it is unclear how it determines the parameters.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

7(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 30, 33, 34, 37-39, 41, 43-48, and 57-59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Shaffer et al. Shaffer et al shows a system that has a gas blender that mixes gas from two sources, an oxygen saturation measuring device (first detection means) that measures oxygen saturation and, if it deviates from a target level, adjust the fraction of inspired oxygen, which is measured with the processor (second detection means), to increase the oxygen saturation. In addition, in column 23, lines 13-20, Shaffer discloses that the device calculates the FiO2 (fraction of oxygen

in the mixture) necessary to achieve a target oxygen saturation. Claims 37-39 are rejected in that two respiratory parameters are determined based on two measurements (one each). With respect to claims 45-48, the device is useable on a person with COPD or to screen for COPD.

Claims 1-29 and 51-56 are allowable.

Claims 1-14 and 51-56 define over the art in that none of the art determines respiratory parameters, as defined in the specification, based on two concurrent measurements of inspiratory or expiratory oxygen levels and blood oxygen levels, as claimed. Claims 15-29 define over the art in that none of the art has the computer adapted to determine if more measurements are required. In both sets of claims (10-14 and 15-29), the claims recite that the computer is adapted to make certain calculations. The examiner is interpreting the term "adapted" to mean programmed to make the calculations, as opposed to being capable of making the calculations.

Claims 31, 32, 35, 36, 40, and 42 would be allowable if rewritten to include all of the limitations of the base claim and any intervening claims. Claims 35, and 36 define over the art if record in that none of the art shows the recited third and fourth detection means. Claims 40 defines over the art in that none of the art calculates the oxygen consumption, as claimed. Claims 31, and 32 define over the art in that none of the art shows the methods of assessing the change in oxygen levels. Claims 42 defines over the art in that none of the art teaches using a gas with an oxygen level in the range claimed.

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Applicant's arguments filed 2/6/2004 have been fully considered but they are not persuasive.

With respect to claim 30, applicant has stated that the device of Shaffer does not calculate the change needed in the Fi02 level to produce the target oxygenation level.

However, the claim only recites that the device assess the change needed. Shaffer does indeed assess whether a change is needed

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert L. Nasser whose telephone number is (703) 308-3251. The examiner can normally be reached on Mon-Fri, variable hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (703) 308-3130. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert L. Nasser Primary Examiner Art Unit 3736

RLN October 13, 2004

> ROBERT L. NASSER PRIMARY EXAMINER

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